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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560,849	12/15/2005	Misao Konishi	94175	2102
	7590 12/09/200 Ell Sanders, LLP	EXAMINER		
Husch Blackwell Sanders LLP Welsh & Katz 120 S RIVERSIDE PLAZA			ARBES, CARL J	
22ND FLOOR	IDE FLAZA		ART UNIT	PAPER NUMBER
CHICAGO, IL 60606			3729	
			MAIL DATE	DELIVERY MODE
			12/09/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/560,849	KONISHI ET AL.			
Office Action Summary	Examiner	Art Unit			
	C. J. Arbes	3729			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the co	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONED	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>15 D</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowal closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	r election requirement. er. pted or b)⊡ objected to by the Ex drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date herein .	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te			

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 2 and 4 are rejected under 35 U.S.C. 102(a) as being anticipated by Stewart et al (U.S. Document 2003/0170444 A1); hereinafter Stewart et al. This document speaks for itself. However in order to further clarify how the Office is construing Stewart et al the following brief summary of its teaching is provided hereinbelow.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Stewart et al. in view of Kumakura. (Japan Pat No. 2001068508 A); (of record) or vice versa. Stewart et al teach a method of making a printed circuit board having landing pads to a surface mounted electronic device. Thermoplastic adhesive can be applied to the surface mount electronic device facing a printed circuit board providing a gap between the thermoplastic adhesive and the circuit board (Cf. Abstract). Before the electronic device is mounted e.g. soldered to the circuit board the adhesive can be softened by forced air heat (Cf. Page 12) This heat can be applied concurrently when the solder connections are being made. Stewart et al also teach that the adhesive that is used has

a melt temperature above 120 degrees Celsius. (Cf. page 14) Obviously when the thermoplastic adhesive is cooled it will bond the electronic device with the circuit board. This is one of the main reasons for using the adhesive.

Claims 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Stewart et al. in view of Kumakura. (Japan Pat No. 2001068508 A); (of record) or vice versa. The Stewart et al teaching has been given and is not repeated. Kumakura teaches *inter alia* that it is old to provide an anisotropic layer between a circuit board surface mounted electronic device. (Cf. Description of the Prior Art in the Kumakura teaching) It therefore is held to have been obvious to provide an anisotropic film between the circuit board and the surface mounted electronic device which is to say that the limitation recited in said claim 4 is also obvious.

Claims 5 and 6 are further rejected under 35 U.S.C. 103(a) in view of Applicants' admitted prior art. In page 1 of the specification Applicants allude to an anisotropic conductive film onto a flexible board. That is Applicants are aware that anisotropic film are used as well as flexible boards. Moreover it is old that anisotropic films can be used with flexible boards to bond surface mounted components onto circuit boards.

In response to Applicants' remarks that there is a spacing between the adhesive and printed circuit board Stewart et al teach that there is a gap 9 and also a gap between the circuit board and the adhesive (Cf. Fig 8 and related disclosure on page 8)

Applicant's amendment necessitated the new grounds of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

.Any inquiry concerning this communication or earlier communications from the examiner should be directed to C. J. Arbes whose telephone number is 571-272-4563. The examiner can normally be reached on M, T, R and F from 8 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, D, Bryant can be reached on (571) 272--4526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/C. J. Arbes/ Primary Examiner, Art Unit 3729